**REMARKS** 

Upon entry of the present amendment, claims 1 and 3-12 will remain pending in the

above-identified application and stand ready for further action on the merits.

Claim 1 has been amended herein to include the limitations of claim 2. Claim 2 has been

cancelled. Claims 4-12 have been added.

No new matter is being introduced by the present amendment. For example, new claim 4

is based on the disclosure at page 2, line 15 of the specification. New claim 5 is based on the

disclosure at page 2, line 15 and Table 1 at page 7 of the specification. New claims 6-8 are based

on the disclosure at page 3, lines 25-29 of the specification. New claim 9 is based on the

disclosure at page 3, lines 25-29 of the specification. New claims 10-12 are based on the

disclosure at page 4, lines 1-6 of the specification.

Proper consideration of each of the pending claims (i.e., claims 1 and 3-12) is

respectfully requested at present, as is entry of the present amendment.

Claim Rejections Under 35 USC § 102

Claims 1-3 have been rejected under 35 USC § 102(b) as being anticipated by Kani

US '758 (US 5,098,758). Further, claims 1 and 3 have been rejected under 35 USC § 102(b) as

being anticipated by EP '754 (EP 1031754).

Reconsideration and withdraw of each of these rejections is respectfully requested based

on the following considerations.

4

GMM/TK/enm

In the non-asbestos friction material of the present invention comprising a fibrous base, a

binder, a filler and an abrasive, the abrasive includes zirconium silicate beads having an average

particle size of 15 to 500 µm, thereby having good coefficient of friction characteristics, yet

minimizing noise and mating surface attack. As described at "Prior Art" of page 1 of the instant

specification, in conventional art, the particles of zirconium silicate generally employed for this

purpose were produced from zircon sand as the starting material by milling, deironing and

classification and they helped confer the material with a high coefficient of friction, but the

zirconium silicate had a tendency to cause noise and mating surface attack (when included in a

friction material) because they produced angular and irregular shapes.

Distinction over Kani US '758

The present invention (claim 1) is distinguished from Kani US '758.

Kani US '758 discloses at column 3 that as the inorganic filler constituting the resin mold

base member, two types of fillers, i.e., a soft filler such as calcium carbonate and a hard filler

such as zirconium silicate, are used in order to make the securing of the friction coefficient of the

resin mold base member compatible with the attack tendency thereof against the mating

component.

However, the constitution of Kani US '758 is the combination of two types of fillers

which are a soft filler such as calcium carbonate and a hard filler such as zirconium silicate.

That is, Kani US '758 teaches that not only zirconium silicate but also a soft filler (such as

calcium carbonate) must be used as fillers. On the other hand, according to the present invention,

5

GMM/TK/enm

Docket No.: 0171-0999P

Docket No.: 0171-0999P

the object (e.g., good coefficient of friction characteristics, minimizing noise and mating surface

attack) can be achieved even if a soft filler such as calcium carbonate is not employed.

Thus, the structure of the present invention is distinguished from that of Kani US '758.

Additionally, zirconium silicate disclosed in Kani US '758 falls within prior art since the

particles of zirconium silicate employed in Kani US '758 is the same as generally used in

conventional art. Namely, in conventional art, the particles of zirconium silicate generally used

for this purpose are produced from zircon sand as the starting material by milling, deironing and

classification. Since the zirconium silicate thus produced are angular and of irregular shape, they

have a tendency to cause noise and mating surface attack when included in a friction material. In

the working Examples Comparative Examples of instant specification, the differences between

the present invention and prior art (i.e., Kani US '758) are described. For example, each of

Comparative Examples 2 and 3, where not spherical zirconium but milled zirconium is employed

in the composition, shows larger mating surface wear (µm) and poor noise performance. It is

reasonable interpretation of those of ordinary skill in the art that a friction material disclosed in

Kani US '758 corresponds to the results in Comparative Examples 2 and 3 in view of the shape

of the zirconium silicate used in the frictional material.

Therefore, the present invention is distinguished from the composition of Kani US '758.

The detailed means for solving the problem such as noise performance and mating surface attack

is different from each other. While the composition of Kani US '758 has the combination of soft

and hard fillers, the present invention is remarkable for the shape of zirconium silicate. Thus, the

constitution for solving the problem is different from each other. Accordingly, Kani US '758

fails to disclose or suggest the present invention and the effects thereof.

6

GMM/TK/enm

Distinction over EP '754

EP '754 fails to disclose or suggest "the abrasive includes zirconium silicate beads

having an average particle size of 15 to 500 µm", which is a feature of the present invention as

recited in claim 1.

EP '754 states at page 3, lines 33-34 that the inorganic filler must have a 90% particle

size of 0.1 to 8 µm. Further, two zirconium silicates employed in all of Examples and

Comparative Examples of Table 1 of page 5 of EP '754 have the particle size of 10 µm and 1.5

μm. Thus, EP '754 teaches away from the present invention, which recites an average particle

size of 15 to 500 µm of zirconium silicate beads.

Additionally, similar to Kani US '758, "zirconium silicate" disclosed in EP '754 falls in

prior art, which is not zirconium silicate beads.

Accordingly, the present invention is neither anticipated by nor obvious over EP '754.

CONCLUSION

Based upon the amendments and remarks presented herein, the Examiner is respectfully

requested to issue a Notice of Allowance clearly indicating that each of the pending claims 1 and

3- 12 are allowed under the provisions of Title 35 of the United States Code.

Should there be any outstanding matters that need to be resolved in the present

application, the Examiner is respectfully requested to contact Gerald M. Murphy, Jr. (Reg. No.

28,977) at the telephone number below, to conduct an interview in an effort to expedite

prosecution in connection with the present application.

7

GMM/TK/enm

Docket No.: 0171-0999P

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: December 27, 2005

Respectfully submitted,

Gerald M. Murphy, Jr. Registration No.: 28,977

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road

Suite 100 East P.O. Box 747

Falls Church, Virginia 22040-0747

(703) 205-8000

Attorney for Applicant